ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M01768 Client: Alaskan Copper Works Date Received: 01/17/08 Project: PO M01768, F&BI 801173 Lab ID: 801173-01 Date Extracted: 01/21/08 01/21/08 Data File: 801173-01.054 Date Analyzed: Matrix: Water Instrument: ICPMS1 Units: ug/L (ppb) Operator: hr

Lower Upper Internal Standard: % Recovery: Limit: Limit: Germanium 94 60 125

Concentration ug/L (ppb)

Chromium 675
Nickel 609
Copper 421
Zinc 10.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Alaskan Copper Works PO M01768, F&BI 801173 Date Received: Not Applicable Project: 01/21/08 Date Extracted: Lab ID: 18-021 mb I8-021 mb.048 Date Analyzed: 01/21/08 Data File: Matrix: Water Instrument: ICPMS1 Units: Operator: ug/L (ppb) hr

Lower Upper Internal Standard: % Recovery: Limit: Limit: Germanium 91 60 125

Concentration ug/L (ppb)

Chromium <1
Nickel <1
Copper <1
Zinc <1

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Date of Report: 01/24/08 Date Received: 01/17/08

Project: Metro Self Monitor, PO M01768, F&BI 801173

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 801114-01 (Duplicate)

		Sample	Duplicate	Relative Percent	Acceptance
Analyte	Reporting Units	s Result	Result	Difference	Criteria
Chromium	ug/L (ppb)	2.79	3.43	21 a	0-20
Nickel	ug/L (ppb)	2.08	2.39	14	0-20
Copper	ug/L (ppb)	4.75	5.35	12	0-20
Zinc	ug/L (ppb)	8.94	9.74	9	0-20

Laboratory Code: 801114-01 (Matrix Spike)

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		Spike	Sample	Recover	у .	Acceptano	e
Analyte	Reporting Uni	ts Level	Result	MS		Criteria	
Chromium	ug/L (ppb)	20	2.79	108		50-150	
Nickel	ug/L (ppb)	20	2.08	103		50-150	
Copper	ug/L (ppb)	20	4.75	103 b		50-150	15
Zinc	ug/L (ppb)	50	8.94	92		50-150	

Laboratory Code: Laboratory Control Sample

		Spike	Percent Recovery	Acceptance
Analyte	Reporting Units	s Level	LCS	Criteria
Chromium	ug/L (ppb)	20	108	70-130
Nickel	ug/L (ppb)	20	106	70-130
Copper	ug/L (ppb)	20	107	70-130
Zinc	ug/L (ppb)	50	90	70-130

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Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probablility.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb The analyte indicated was found in the method blank. The result should be considered an estimate.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht The sample was extracted outside of holding time. Results should be considered estimates.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The pattern of peaks present is not indicative of diesel.
- y The pattern of peaks present is not indicative of motor oil.

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Send Report To STRACO / Hompson Company ALASKAN Copper Works Address 628 S. HANGEL ST City, State, ZIP Section WA 28/34 Phone #206-371-6033 Fax # 206-382-4309				PROJECT NAME/NO. PO# METER SECT MON; FOR MD1768 REMARKS				Page #of								
				:						ANAI	LYSES	REQU	UESTED			
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	8270	HFS					Notes
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Friedman & Bruya, Inc. 3012 16th Adenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 24, 2008

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 17, 2008 from the Metro Self Monitor, PO M01768, F&BI 801173 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0124R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 24, 2008



INVOICE #08ACU0124-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO M01768, F&BI 801173 - Results of testing requested by Gerry Thompson for material submitted on January 17, 2008.

federal tax id #(b) (6)